I claim:

1. A multihull craft comprising a principal hull of displacement type and a lateral hull of semi-planning type.

2. The craft of claim 1 in which said lateral hull is of the semi displacement type.

3. The craft of claim 1 in which said lateral hull is of the transonic hull type.

4. The craft of claim 1 in which all hulls are of the transonic hull type.

5. The craft of claim 1 in which lateral wing support extends between said lateral hull and said principal hull.

6. A multihull configuration comprising a principal hull, a lateral hull, and a supporting structure therebetween, with hydrodynamic impellers mounted on said supporting structure to capture the rearward flow between said principal and lateral hulls and impel said rearward flow in a rearward direction at a higher speed.

7. A man powered craft having a principal body and a lateral elongated body articulated on a side of said principal body, said elongated body adapted to be moved between an upper level disposition, and a lower level disposition in which the volume of

said lateral body can generate a lateral change of buoyant forces when said principal body is heeled.

- 8. A slender man-powered craft having an aerodynamic impeller driven by an electric motor powered by batteries for selective use by said man.
- 9. The craft of claim 8 having solar cells to recharge said batteries.
- 10. The craft of claim 9 in which said craft has a wing of large chord and large area supporting a lateral hull with said area providing substantial additional area for increased number of solar cells.
- 11. A multihull having a principal displacement type hull and a lateral hull of transonic hull shape, with the speed / length ratios of outer hull being larger than that of principal hull by a factor greater than approximately 1.5.
- 12. The multihull of claim 11 in which said multihull is of a man-powered type.
- 13. A multihull having a principal hull and a lateral hull connected to said principal hull by an approximately horizontal structure when operating in the water, said structure being articulated at its root at an approximately longitudinal articulation which permits change of inclination of said structure

in front view.

14. A multihull having a principal hull, and a lateral hull with each of said hulls having similar triangular waterplane planform shapes with narrow end forward and broad end rearwards, and with each said multihulls having, at any given speed, a speed/length ratio of said outer hull no less than approximately 1.5 times that of the principal hull.

15. A vessel having a body with a bow, a stern, a longitudinal length, and a waterplane in hydrostatic condition, said water plane having a substantially triangular shape with a pointed end adjacent said bow and a broad end adjacent said stern, said vessel further characterized in that the waterplane of said broad end has outboard ends and a center region, with said center region being upstream of said outboard ends, forming in planform a shallow Vee therebetween.